AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
J	1 of 48

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO.(If applicable)
0001	31-Jul-2002	W16ROE-2156-1458	

6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than item 6)	CODE
USA ENGINEER DISTRICT, NEW YORK ATTN: CENAN-CT ROOM 1843 26 FEDERAL PLAZA (DACA51) NEW YORK NY 10278-0090	DACA51	**See Item 6**	

8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		
	X	9A. AMENDMENT OF SOLICITATION NO. DACA51-02-R-0017
	X	9B. DATED (SEE ITEM 11) 03-Jul-2002
		10A. MOD. OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)
CODE / FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer [ ] is extended, [X] is not extended.

Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

- [ ] A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
- [ ] B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).
- [ ] C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
- [ ] D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [ ] is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment 0001 to solicitation DACA51-02-R-0017 is to make changes, additions, and revisions to the drawings and specifications.

NOTE: Offerors must acknowledge receipt of this amendment by the date specified in the solicitation (or as amended) by one of the following methods: In the space provided in the SF1442, by separate letter, by telegram, or by signing Block 15 below. FAILURE TO ACKNOWLEDGE AMENDMENTS BY THE DATE AND TIME SPECIFIED MAY RESULT IN REJECTION OF YOUR PROPOSAL IN ACCORDANCE WITH THE LATE OFFERS, LATE MODIFICATION OF OFFERS, OR LATE WITHDRAWAL OF OFFERS (FAR 14.305).

The due date for proposals remains unchanged at 12 August 2002 @ 12:00 noon.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) TEL: EMAIL:	
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED 31-Jul-2002

SECTION 00100 - BIDDING SCHEDULE/INSTRUCTIONS TO BIDDERS

BID SCHEDULE
26 July 2002

C-17 MAINTENANCE HANGAR AND AIRCRAFT MAINTENANCE SHOPS
MCGUIRE AFB, NEW JERSEY

Item No.	Description	Amount
	BASE BID	
1.	All work for the C-17 Maintenance Hangar and Aircraft Maintenance Shops as described in the plans and specifications, including all plant and labor, complete and excluding items below.	$_____
2.	Site work, all work outside the five-foot line of the building perimeter.	$_____
3.	All design services excluding design services for optional bid items.	$_____
4.	All work for the Final Record Drawing Submission (See paragraph 10 of Section 00800).	$25,000
	Total Base Bid Price	$_____
	OPTIONAL BID ITEM No. 1	
5.	Additional work for the inclusion of the Canopy on the west side of the Hangar.	$_____
	OPTIONAL BID ITEM No. 2	
6.	Additional work for the inclusion of the POV Parking Lot and associated access road, sidewalk, and area lighting.	$_____
	OPTIONAL BID ITEM No. 3	
7.	Additional work for the inclusion of the Landscaping and associated Irrigation.	$_____
	OPTIONAL BID ITEM No. 4	

8. Additional work for the inclusion of the Lockers. $_____

OPTIONAL BID ITEM No. 5

9. Additional work for the inclusion of the Light Reflective Dry Shake Quartz Floor Hardener in Hangar Bay 114, Wheel and Tire Shop 135, Repair and Reclamation Shop 139, Pneudraulics Shop 141, Sheet Metal Shop 156, Corrosion Control/Composite Shop 159, and Machine Shop 168. $_____

OPTIONAL BID ITEM No. 6

10. Additional work for the inclusion of the Insulated Translucent Fiberglass Sandwich Panels on the North Face of the High Bay exterior walls. $_____

OPTIONAL BID ITEM No. 7

11. Additional work for the inclusion of the Insulated Translucent Fiberglass Sandwich Panels on the East and West Faces of the High Bay exterior walls. $_____

OPTIONAL BID ITEM No. 8

12. Additional work for the inclusion of the Standby Power Generator. $_____

OPTIONAL BID ITEM No. 9

13. Additional work for the inclusion of the Bridge Cranes. $_____

OPTIONAL BID ITEM No. 10

14. Additional work for the addition of a wood shadow-box type construction fence in lieu of a chain-link construction fence, and to paint the dumpsters, trash containers and temporary sanitation facilities, and contractor trailers, offices and storage buildings, the standard Base colors. $_____

OPTIONAL BID ITEM No. 11

15. Deduct price for designing and building the project in English inch-pound (I-P) units in lieu of International System of Units (SI) as shown on the Contract Documents. $<_____>

Optional Bid Items No. 1-11 $_____

Total Bid with Optional Bid Items No. 1-11 $_____

NOTES:

1. The low bidder for purposes of award will be the conforming responsible bidder offering the lowest amount for the Base Bid Item plus all Optional Bid Items.

2. The minimum construction award will be the amount bid for the Base Bid Item.

3. Bidders are required to bid on the Base Bid and all Optional Bid Items or their bids will be rejected.

4. Bidders are reminded that they must bid on the issued plans and specifications as amended. Any deviations, conditions or attachments made by the bidder himself thereto may render the bid non-responsive and be cause for its rejection.

5. A unit price is an amount proposed by Bidders and stated on the Bid Form as a price per unit of measurement for materials or services that will be added to or deducted from the Contract Sum by Change Order in the event the estimated quantities of Work required by the Contract Documents are increased or decreased. Unit prices include all necessary material, overhead, profit and applicable taxes.

6. Option #1 through #9: At any time prior to 120 calendar days after award of the contract, the Government at its option, and in the event additional funds are made available for such work to be performed, may direct the Contractor, by written order, to perform the work and/or services to be provided under Option #1 through #9.

7. Option #10 and #11: At any time prior to 30 calendar days after award of the contract, the Government at its option, may direct the Contractor, by written order, to perform the work and/or services provided under Option #10 and #11.

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION 00010 - SOLICITATION CONTRACT FORM

CLIN 0001

The CLIN extended description has changed from All work for the C-17 Maintenance Hangar and Aircraft Maintenance Shops as described in the plans and specifications complete to All work for the C-17 Maintenance Hangar and Aircraft Maintenance Shops as described in the plans and specifications, including all plant and labor, complete and excluding items below..

CLIN 0002

The CLIN description Removal of asbestos containing floor tile has been deleted.

The CLIN extended description Site work, all work outside the five-foot line of the building perimeter. has been added.

The pricing detail quantity has decreased by 11.00 from 12.00 to 1.00.

The unit of issue has changed from Square Meter to Lump Sum.

CLIN 0003

The CLIN description Removal of asbestos cntaining floor mastic has been deleted.

The CLIN extended description All design services excluding design services for optional bid items. has been added.

The pricing detail quantity has decreased by 11.00 from 12.00 to 1.00.

The unit of issue has changed from Square Meter to Lump Sum.

CLIN 0004

The CLIN description Removal of asbestos containing roof flashing has been deleted.

The CLIN extended description All work for the Final Record Drawing Submission (See paragraph 10 of Section 0800). has been added.

The pricing detail quantity has decreased by 152.00 from 153.00 to 1.00.

The unit of issue has changed from Linear Meter to Lump Sum.

CLIN 0005

The CLIN description has changed from Removal of asbestos containing built-up roofing to OPTIONAL BID ITEM NO. 1.

The CLIN extended description Additional work for the inclusion of the Canopy on the west side of the Hangar. has been added.

The pricing detail quantity has decreased by 1.00 from 2.00 to 1.00.

The unit of issue has changed from Square Meter to Lump Sum.

The option status has changed from No Status to Option.

CLIN 0006

The CLIN description has changed from Removal of asbestos containing pipe insulation to OPTIONAL BID ITEM NO. 2.

The CLIN extended description Additional work for the inclusion of the POV Parking Lot and associated access road, sidewalk, and area lighting . has been added.

The pricing detail quantity has decreased by 69.00 from 70.00 to 1.00.

The unit of issue has changed from Linear Meter to Lump Sum.

The option status has changed from No Status to Option.

CLIN 0007

The CLIN description has changed from Removal of asbestos containing caulking to OPTIONAL BID ITEM NO. 3.

The CLIN extended description has changed from (width <12 mm) to Additional work for the inclusion of the Landscaping and associated irrigation..

The pricing detail quantity has decreased by 42.00 from 43.00 to 1.00.

The unit of issue has changed from Linear Meter to Lump Sum.

The option status has changed from No Status to Option.

CLIN 0008

The CLIN description has changed from Removal of asbestos containing caulking to OPTIONAL BID ITEM NO. 4.

The CLIN extended description Additional work for the inclusion of the Lockers. has been added.

The pricing detail quantity has decreased by 62.00 from 63.00 to 1.00.

The unit of issue has changed from Square Meter to Lump Sum.

The option status has changed from No Status to Option.

CLIN 0009

The CLIN description has changed from All work for the Final Record Drawings to OPTIONAL BID ITEM NO. 5.

The CLIN extended description has changed from Submission to Additional work for the inclusion of the Light Reflective Dry Shake Quartz Floor Hardener in Hangar Bay 114, Wheel and Tire Shop 135, Repair and Reclamation Shop 139, Pneudraulics Shop 141, Sheet Metal shop 156, Corrosion Control/composite Shop 159, and Machine Shop 168..

The pricing detail quantity has decreased by 4,999.00 from 5,000.00 to 1.00.

The option status has changed from No Status to Option.

CLIN 0010

The CLIN description has changed from OPTIONAL OFFER ITEM to OPTIONAL OFFER ITEM No. 6.

The CLIN extended description has changed from Additional work for the inclusion of the Canopy on the west Side of the Hangar to Additional work for the inclusion of the Insulated Translucent Fiberglass Sandwich Panels on the North Face of the High Bay exterior walls..

The option status has changed from No Status to Option.

CLIN 0011

The CLIN description has changed from Additional work for inclusion of the POV to OPTIONAL BID ITEM NO. 7.

The CLIN extended description has changed from Parking Lot and associated access road, sidewalk and area lighting to Additional work for the inclusion of the Insulated Translucent Fiberglass Sandwich Panels on the East and West Faces of the High Bay exterior walls..

The option status has changed from No Status to Option.

CLIN 0012

The CLIN description has changed from Additional work the inclusion of the to OPTIONAL BID ITEM NO. 8.

The CLIN extended description has changed from landscaping and associated irrigation to Additonal work for the inclusion of the Standby Power Generator..

The option status has changed from No Status to Option.

CLIN 0013

The CLIN description has changed from Additional work for the incluso of the lockers to OPTIONAL BID ITEM NO. 9.

The CLIN extended description Addtional work for the inclusion of the Bridge Cranes. has been added.

The option status has changed from No Status to Option.

CLIN 0014

The CLIN description has changed from Additional work for the incluison of the light to OPTIONAL BID ITEM NO. 10.

The CLIN extended description has changed from Reflective Dry Shake Quartz Floor Hardener to Addrtional work for the addition of a wood shadow-box type construction fence in lieu of a chain-link construction fence, and to paint the dumpsters, trash containers and temporary sanitation facilities, and contractor trailers,offices and storage buildings, the standard Base colors..

The option status has changed from No Status to Option.

CLIN 0015

The CLIN description has changed from Additional work for the inclusion of the to OPTIONAL BID ITEM NO. 11.

The CLIN extended description has changed from Insulated Transclucent Fiberglass Sandwich Panels on the North Face of the High Bay exterior walls to Deduct price for designing and building the project in English inch-pound (I-P) units in lieu of International System of Units (SI) as shown on the Contract Documents..

The option status has changed from No Status to Option.

CLIN 0016

The CLIN description Additional work for the inclusion of the Insulated has been deleted.

The CLIN extended description Translucent Fiberglass Sandwich Panels on the North Face of the High Bay exterior walls has been deleted.

CLIN 0017

The CLIN description Additional work for the inclusion of the has been deleted.
The CLIN extended description Standby Power Generator has been deleted.

CLIN 0018

The CLIN description Additional work for the inclusion of has been deleted.
The CLIN extended description the Bridge Cranes. has been deleted.

SECTION 00800 - SPECIAL CONTRACT REQUIREMENTS

The following have been added by full text:
A 0001-9100N

SECTION 09100N

METAL SUPPORT ASSEMBLIES
09/99

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 463/A 463M	(1997; Rev. A) Steel Sheet, Aluminum-Coated, by the Hot-Dip Process
ASTM A 653/A 653M	(1998) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
ASTM C 645	(1998) Nonstructural Steel Framing Members
ASTM C 754	(1997) Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products

1.2 SUBMITTALS

Submit the following in accordance with Section 01330, "Submittal Procedures."

SD-02 Shop Drawings

Metal support systems; G

Submit for the erection of metal framing, furring, and ceiling suspension systems. Indicate materials, sizes, thicknesses, and fastenings.

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver materials to the job site and store in ventilated dry locations. Storage area shall permit easy access for inspection and handling. If materials are stored outdoors, stack materials off the ground, supported on a level platform, and fully protected from the weather. Handle materials carefully to prevent damage. Remove damaged items and provide new items.

PART 2 PRODUCTS

2.1 MATERIALS

Provide steel materials for metal support systems with galvanized coating ASTM A 653/A 653M, Z180; aluminum coating ASTM A 463/A 463M, T1-75; or a 55-percent aluminum-zinc coating.

2.1.2 Materials for Attachment of Gypsum Wallboard

2.1.2.1 Suspended and Furred Ceiling Systems

ASTM C 645.

2.1.2.2 Nonload-Bearing Wall Framing and Furring

ASTM C 645, but not thinner than 0.85 mm thickness minimum.

2.1.2.5 Hat Shaped Furring Channels

Not lighter than 0.5 mm thick galvanized steel, hat shaped, with 22 mm furring depth.

PART 3 EXECUTION

3.1 INSTALLATION

3.1.2 Systems for Attachment of Gypsum Wallboard

3.1.2.1 Suspended and Furred Ceiling Systems

ASTM C 754, except that framing members shall be 400 mm o.c. unless indicated otherwise.

3.1.2.2 Nonload-Bearing Wall Framing and Furring

ASTM C 754, except as indicated otherwise.

3.1.2.5 Hat Shaped Furring Channels

Install hat shaped furring channels vertically spaced not more than 600 mm o.c. Locate furring channels in accordance with manufacturer's printed erection instructions. Fasten furring channels to masonry walls with powder-driven fasteners or hardened concrete steel nails through narrow flange of channel. Space fasteners not more than 600 mm o.c.

3.2 ERECTION TOLERANCES

Framing members which will be covered by finish materials such as wallboard shall be within the following limits:

a. Layout of walls and partitions: 6 mm from intended position;

b. Plates and runners: 5 mm in 1.9 meters from a straight line;

c. Studs: 5 mm in 1.9 meters out of plumb, not cumulative; and

d. Face of framing members: 5 mm in 1.9 meters from a true plane.

Framing members which will be covered by ceramic tile set in dry-set mortar or latex-portland cement mortar, shall be within the following limits:

a. Layout of walls and partitions: 6 mm from intended position;

b. Plates and runners: 5 mm in 3.8 meters from a straight line;

c. Studs: 5 mm in 3.8 meters out of plumb, not cumulative; and

d. Face of framing members: 5 mm in 3.8 meters from a true plane.

-- End of Section --

A00001-01355A

SECTION 01355A

ENVIRONMENTAL PROTECTION
02/02

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

33 CFR 328	Definitions
40 CFR 68	Chemical Accident Prevention Provisions
40 CFR 152 - 186	Pesticide Programs
40 CFR 260	Hazardous Waste Management System: General
40 CFR 261	Identification and Listing of Hazardous Waste
40 CFR 262	Standards Applicable to Generators of Hazardous Waste
40 CFR 279	Standards for the Management of Used Oil
40 CFR 302	Designation, Reportable Quantities, and Notification

40 CFR 355	Emergency Planning and Notification
49 CFR 171 - 178	Hazardous Materials Regulations

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(1996) U.S. Army Corps on Engineers Safety and Health Requirements Manual
WETLAND MANUAL	Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1

1.2 DEFINITIONS

1.2.1 Environmental Pollution and Damage

Environmental pollution and damage is the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade the environment aesthetically, culturally and/or historically.

1.2.2 Environmental Protection

Environmental protection is the prevention/control of pollution and habitat disruption that may occur to the environment during construction. The control of environmental pollution and damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.

1.2.3 Contractor Generated Hazardous Waste

Contractor generated hazardous waste means materials that, if abandoned or disposed of, may meet the definition of a hazardous waste. These waste streams would typically consist of material brought on site by the Contractor to execute work, but are not fully consumed during the course of construction. Examples include, but are not limited to, excess paint thinners (i.e. methyl ethyl ketone, toluene etc.), waste thinners, excess paints, excess solvents, waste solvents, and excess pesticides, and contaminated pesticide equipment rinse water.

1.2.4 Installation Pest Management Coordinator

Installation Pest Management Coordinator (IPMC) is the individual officially designated by the Installation Commander to oversee the Installation Pest Management Program and the Installation Pest Management Plan.

1.2.5 Land Application for Discharge Water

The term "Land Application" for discharge water implies that the Contractor shall discharge water at a rate which allows the water to percolate into the soil. No sheeting action, soil erosion, discharge into storm sewers, discharge into defined drainage areas, or discharge into the "waters of the

United States" shall occur. Land Application shall be in compliance with all applicable Federal, State, and local laws and regulations.

1.2.6 Pesticide

Pesticide is defined as any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest, or intended for use as a plant regulator, defoliant or desiccant.

1.2.7 Pests

The term "pests" means arthropods, birds, rodents, nematodes, fungi, bacteria, viruses, algae, snails, marine borers, snakes, weeds and other organisms (except for human or animal disease-causing organisms) that adversely affect readiness, military operations, or the well-being of personnel and animals; attack or damage real property, supplies, equipment, or vegetation; or are otherwise undesirable.

1.2.8 Surface Discharge

The term "Surface Discharge" implies that the water is discharged with possible sheeting action and subsequent soil erosion may occur. Waters that are surface discharged may terminate in drainage ditches, storm sewers, creeks, and/or "waters of the United States" and would require a permit to discharge water from the governing agency.

1.2.9 Waters of the United States

All waters which are under the jurisdiction of the Clean Water Act, as defined in 33 CFR 328.

1.2.10 Wetlands

Wetlands means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, and bogs. Official determination of whether or not an area is classified as a wetland must be done in accordance with WETLAND MANUAL.

1.3 GENERAL REQUIREMENTS

The Contractor shall minimize environmental pollution and damage that may occur as the result of construction operations. The environmental resources within the project boundaries and those affected outside the limits of permanent work shall be protected during the entire duration of this contract. The Contractor shall comply with all applicable environmental Federal, State, and local laws and regulations. The Contractor shall be responsible for any delays resulting from failure to comply with environmental laws and regulations.

1.4 SUBCONTRACTORS

The Contractor shall ensure compliance with this section by subcontractors.

1.5 PAYMENT

No separate payment will be made for work covered under this section. The Contractor shall be responsible for payment of fees associated with environmental permits, application, and/or notices obtained by the Contractor. All costs associated with this section shall be included in the contract price. The Contractor shall be responsible for payment of all fines/fees for violation or non-compliance with Federal, State, Regional and local laws and regulations.

1.6 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Environmental Protection Plan; G, [_____]

The environmental protection plan.

1.7 ENVIRONMENTAL PROTECTION PLAN

Prior to commencing construction activities or delivery of materials to the site, the Contractor shall submit an Environmental Protection Plan for review and approval by the Contracting Officer. The purpose of the Environmental Protection Plan is to present a comprehensive overview of known or potential environmental issues which the Contractor must address during construction. Issues of concern shall be defined within the Environmental Protection Plan as outlined in this section. The Contractor shall address each topic at a level of detail commensurate with the environmental issue and required construction task(s). Topics or issues which are not identified in this section, but which the Contractor considers necessary, shall be identified and discussed after those items formally identified in this section. Prior to submittal of the Environmental Protection Plan, the Contractor shall meet with the Contracting Officer for the purpose of discussing the implementation of the initial Environmental Protection Plan; possible subsequent additions and revisions to the plan including any reporting requirements; and methods for administration of the Contractor's Environmental Plans. The Environmental Protection Plan shall be current and maintained onsite by the Contractor.

1.7.1 Compliance

No requirement in this Section shall be construed as relieving the Contractor of any applicable Federal, State, and local environmental protection laws and regulations. During Construction, the Contractor shall be responsible for identifying, implementing, and submitting for approval any additional requirements to be included in the Environmental Protection Plan.

1.7.2 Contents

The environmental protection plan shall include, but shall not be limited to, the following:

a. Name(s) of person(s) within the Contractor's organization who is(are) responsible for ensuring adherence to the Environmental Protection Plan.

b. Name(s) and qualifications of person(s) responsible for manifesting hazardous waste to be removed from the site, if applicable.

c. Name(s) and qualifications of person(s) responsible for training the Contractor's environmental protection personnel.

d. Description of the Contractor's environmental protection personnel training program.

e. An erosion and sediment control plan which identifies the type and location of the erosion and sediment controls to be provided. The plan shall include monitoring and reporting requirements to assure that the control measures are in compliance with the erosion and sediment control plan, Federal, State, and local laws and regulations. A Storm Water Pollution Prevention Plan (SWPPP) may be substituted for this plan.

f. Drawings showing locations of proposed temporary excavations or embankments for haul roads, stream crossings, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials including methods to control runoff and to contain materials on the site.

g. Traffic control plans including measures to reduce erosion of temporary roadbeds by construction traffic, especially during wet weather. Plan shall include measures to minimize the amount of mud transported onto paved public roads by vehicles or runoff.

h. Work area plan showing the proposed activity in each portion of the area and identifying the areas of limited use or nonuse. Plan should include measures for marking the limits of use areas including methods for protection of features to be preserved within authorized work areas.

i. Drawing showing the location of borrow areas.

j. The Spill Control plan shall include the procedures, instructions, and reports to be used in the event of an unforeseen spill of a substance regulated by 40 CFR 68, 40 CFR 302, 40 CFR 355, and/or regulated under State or Local laws and regulations. The Spill Control Plan supplements the requirements of EM 385-1-1. This plan shall include as a minimum:

1. The name of the individual who will report any spills or hazardous substance releases and who will follow up with complete documentation. This individual shall immediately notify the Contracting Officer and the Facility Fire Department via 911. McGuire AFB will immediately notify, using established procedures, the legally required Federal, State, and local reporting channels

(including the National Response Center 1-800-424-8802) if a reportable quantity is released to the environment. The plan shall contain a list of the required reporting channels and telephone numbers.

2. The name and qualifications of the individual who will be responsible for implementing and supervising the containment and cleanup.

3. Training requirements for Contractor's personnel and methods of accomplishing the training.

4. A list of materials and equipment to be immediately available at the job site, tailored to cleanup work of the potential hazard(s) identified.

5. The names and locations of suppliers of containment materials and locations of additional fuel oil recovery, cleanup, restoration, and material-placement equipment available in case of an unforeseen spill emergency.

6. The methods and procedures to be used for expeditious contaminant cleanup.

k. A non-hazardous solid waste disposal plan identifying methods and locations for solid waste disposal including clearing debris. The plan shall include schedules for disposal. The Contractor shall identify any subcontractors responsible for the transportation and disposal of solid waste. Licenses or permits shall be submitted for solid waste disposal sites that are not a commercial operating facility. Evidence of the disposal facility's acceptance of the solid waste shall be attached to this plan during the construction. The Contractor shall attach a copy of each of the Non-hazardous Solid Waste Diversion Reports to the disposal plan. The report shall be submitted on the first working day after the first quarter that non-hazardous solid waste has been disposed and/or diverted and shall be for the previous quarter (e.g. the first working day of January, April, July, and October). The report shall indicate the total amount of waste generated and total amount of waste diverted in cubic meters or tons along with the percent that was diverted.

l. A recycling and solid waste minimization plan with a list of measures to reduce consumption of energy and natural resources. The plan shall detail the Contractor's actions to comply with and to participate in Federal, State, Regional, and local government sponsored recycling programs to reduce the volume of solid waste at the source.

m. An air pollution control plan detailing provisions to assure that dust, debris, materials, trash, etc., do not become air borne and travel off the project site.

n. A contaminant prevention plan that: identifies potentially hazardous substances to be used on the job site; identifies the intended actions to prevent introduction of such materials into the air, water, or ground; and details provisions for compliance with Federal, State, and local laws and regulations for storage and handling

of these materials. In accordance with EM 385-1-1, a copy of the Material Safety Data Sheets (MSDS) and the maximum quantity of each hazardous material to be on site at any given time shall be included in the contaminant prevention plan. As new hazardous materials are brought on site or removed from the site, the plan shall be updated.

o. A waste water management plan that identifies the methods and procedures for management and/or discharge of waste waters which are directly derived from construction activities, such as concrete curing water, clean-up water, dewatering of ground water, disinfection water, hydrostatic test water, and water used in flushing of lines. If a settling/retention pond is required, the plan shall include the design of the pond including drawings, removal plan, and testing requirements for possible pollutants. If land application will be the method of disposal for the waste water, the plan shall include a sketch showing the location for land application along with a description of the pretreatment methods to be implemented. If surface discharge will be the method of disposal, a copy of the permit and associated documents shall be included as an attachment prior to discharging the waste water. If disposal is to a sanitary sewer, the plan shall include documentation that the Waste Water Treatment Plant Operator has approved the flow rate, volume, and type of discharge.

p. A historical, archaeological, cultural resources biological resources and wetlands plan that defines procedures for identifying and protecting historical, archaeological, cultural resources, biological resources and wetlands known to be on the project site: and/or identifies procedures to be followed if historical archaeological, cultural resources, biological resources and wetlands not previously known to be onsite or in the area are discovered during construction. The plan shall include methods to assure the protection of known or discovered resources and shall identify lines of communication between Contractor personnel and the Contracting Officer.

q. A pesticide treatment plan shall be included and updated, as information becomes available. The plan shall include: sequence of treatment, dates, times, locations, pesticide trade name, EPA registration numbers, authorized uses, chemical composition, formulation, original and applied concentration, application rates of active ingredient (i.e. pounds of active ingredient applied), equipment used for application and calibration of equipment. The Contractor is responsible for Federal, State, Regional and Local pest management record keeping and reporting requirements as well as any additional Installation Project Office specific requirements.

1.7.3 Appendix

Copies of all environmental permits, permit application packages, approvals to construct, notifications, certifications, reports, and termination documents shall be attached, as an appendix, to the Environmental Protection Plan.

1.8 PROTECTION FEATURES

This paragraph supplements the Contract Clause PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS. Prior to

start of any onsite construction activities, the Contractor and the Contracting Officer shall make a joint condition survey. Immediately following the survey, the Contractor shall prepare a brief report including a plan describing the features requiring protection under the provisions of the Contract Clauses, which are not specifically identified on the drawings as environmental features requiring protection along with the condition of trees, shrubs and grassed areas immediately adjacent to the site of work and adjacent to the Contractor's assigned storage area and access route(s), as applicable. This survey report shall be signed by both the Contractor and the Contracting Officer upon mutual agreement as to its accuracy and completeness. The Contractor shall protect those environmental features included in the survey report and any indicated on the drawings, regardless of interference which their preservation may cause to the Contractor's work under the contract.

1.9 SPECIAL ENVIRONMENTAL REQUIREMENTS

The Contractor shall comply with the special environmental requirements for the Burlington County Soil Conservation District, the New Jersey Department of Environmental Protection, Pinelands District, and Base Civil Engineering - Environmental Division.

1.10 ENVIRONMENTAL ASSESSMENT OF CONTRACT DEVIATIONS

Any deviations, requested by the Contractor, from the drawings, plans and specifications which may have an environmental impact will be subject to approval by the Contracting Officer and may require an extended review, processing, and approval time. The Contracting Officer reserves the right to disapprove alternate methods, even if they are more cost effective, if the Contracting Officer determines that the proposed alternate method will have an adverse environmental impact.

1.11 NOTIFICATION

The Contracting Officer will notify the Contractor in writing of any observed noncompliance with Federal, State or local environmental laws or regulations, permits, and other elements of the Contractor's Environmental Protection plan. The Contractor shall, after receipt of such notice, inform the Contracting Officer of the proposed corrective action and take such action when approved by the Contracting Officer. The Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No time extensions shall be granted or equitable adjustments allowed to the Contractor for any such suspensions. This is in addition to any other actions the Contracting Officer may take under the contract, or in accordance with the Federal Acquisition Regulation or Federal Law.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 ENVIRONMENTAL PERMITS AND COMMITMENTS

This paragraph supplements the Contractor's responsibility under the contract clause "PERMITS AND RESPONSIBILITIES" to the extent that the

Government has obtained the Burlington County Soil Erosion and Sediment Control Permit.

3.2 LAND RESOURCES

The Contractor shall confine all activities to areas defined by the drawings and specifications. Prior to the beginning of any construction, the Contractor shall identify any land resources to be preserved within the work area. Except in areas indicated on the drawings or specified to be cleared, the Contractor shall not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil, and land forms without approval. No ropes, cables, or guys shall be fastened to or attached to any trees for anchorage unless specifically authorized. The Contractor shall provide effective protection for land and vegetation resources at all times as defined in the following subparagraphs. Stone, soil, or other materials displaced into uncleared areas shall be removed by the Contractor.

3.2.1 Work Area Limits

Prior to commencing construction activities, the Contractor shall mark the areas that need not be disturbed under this contract. Isolated areas within the general work area which are not to be disturbed shall be marked or fenced. Monuments and markers shall be protected before construction operations commence. Where construction operations are to be conducted during darkness, any markers shall be visible in the dark. The Contractor's personnel shall be knowledgeable of the purpose for marking and/or protecting particular objects.

3.2.2 Landscape

Trees, shrubs, vines, grasses, land forms and other landscape features indicated and defined on the drawings to be preserved shall be clearly identified by marking, fencing, or wrapping with boards, or any other approved techniques. The Contractor shall restore landscape features damaged or destroyed during construction operations outside the limits of the approved work area.

3.2.3 Erosion and Sediment Controls

The Contractor shall be responsible for providing erosion and sediment control measures in accordance with Federal, State, and local laws and regulations. The erosion and sediment controls selected and maintained by the Contractor shall be such that water quality standards are not violated as a result of the Contractor's construction activities. The area of bare soil exposed at any one time by construction operations should be kept to a minimum. The Contractor shall construct or install temporary and permanent erosion and sediment control best management practices (BMPs) in accordance with the Burlington County Soil Conservation District. BMPs may include, but not be limited to, vegetation cover, stream bank stabilization, slope stabilization, silt fences, construction of terraces, interceptor channels, sediment traps, inlet and outfall protection, diversion channels, and sedimentation basins. Any temporary measures shall be removed after the area has been stabilized.

3.2.4 Contractor Facilities and Work Areas

The Contractor's field offices, staging areas, stockpile storage, and temporary buildings shall be placed in areas designated on the drawings or as directed by the Contracting Officer. Temporary movement or relocation of Contractor facilities shall be made only when approved. Erosion and sediment controls shall be provided for on-site borrow and spoil areas to prevent sediment from entering nearby waters. Temporary excavation and embankments for plant and/or work areas shall be controlled to protect adjacent areas.

3.3 WATER RESOURCES

The Contractor shall monitor construction activities to prevent pollution of surface and ground waters. Toxic or hazardous chemicals shall not be applied to soil or vegetation unless otherwise indicated. All water areas affected by construction activities shall be monitored by the Contractor. For construction activities immediately adjacent to impaired surface waters, the Contractor shall be capable of quantifying sediment or pollutant loading to that surface water when required by State or Federally issued Clean Water Act permits.

3.3.3 Wetlands

The Contractor shall not enter, disturb, destroy, or allow discharge of contaminants into any wetlands.

3.4 AIR RESOURCES

Equipment operation, activities, or processes performed by the Contractor shall be in accordance with all Federal and State air emission and performance laws and standards.

3.4.1 Particulates

Dust particles; aerosols and gaseous by-products from construction activities; and processing and preparation of materials, such as from asphaltic batch plants; shall be controlled at all times, including weekends, holidays and hours when work is not in progress. The Contractor shall maintain excavations, stockpiles, haul roads, permanent and temporary access roads, plant sites, spoil areas, borrow areas, and other work areas within or outside the project boundaries free from particulates which would cause the Federal, State, and local air pollution standards to be exceeded or which would cause a hazard or a nuisance. Sprinkling, chemical treatment of an approved type, baghouse, scrubbers, electrostatic precipitators or other methods will be permitted to control particulates in the work area. Sprinkling, to be efficient, must be repeated to keep the disturbed area damp at all times. The Contractor must have sufficient, competent equipment available to accomplish these tasks. Particulate control shall be performed as the work proceeds and whenever a particulate nuisance or hazard occurs. The Contractor shall comply with all State and local visibility regulations.

3.4.2 Odors

Odors from construction activities shall be controlled at all times. The odors shall not cause a health hazard and shall be in compliance with State regulations and/or local ordinances.

3.4.3 Sound Intrusions

The Contractor shall keep construction activities under surveillance and control to minimize environment damage by noise. The Contractor shall comply with the provisions of the State of New Jersey rules.

3.4.4 Burning

Burning shall be prohibited on the Government premises.

3.6 CHEMICAL MATERIALS MANAGEMENT AND WASTE DISPOSAL

Disposal of wastes shall be as directed below, unless otherwise specified in other sections and/or shown on the drawings.

3.6.1 Solid Wastes

Solid wastes (excluding clearing debris) shall be placed in containers which are emptied on a regular schedule. Handling, storage, and disposal shall be conducted to prevent contamination. Segregation measures shall be employed so that no hazardous or toxic waste will become co-mingled with solid waste. [The Contractor shall transport solid waste off Government property and dispose of it in compliance with Federal, State, and local requirements for solid waste disposal. A Subtitle D RCRA permitted landfill shall be the minimum acceptable off-site solid waste disposal option. The Contractor shall verify that the selected transporters and disposal facilities have the necessary permits and licenses to operate.

3.6.2 Chemicals and Chemical Wastes

Chemicals shall be dispensed ensuring no spillage to the ground or water. Periodic inspections of dispensing areas to identify leakage and initiate corrective action shall be performed and documented. This documentation will be periodically reviewed by the Government. Chemical waste shall be collected in corrosion resistant, compatible containers. Collection drums shall be monitored and removed to a staging or storage area when contents are within 150 mm of the top. Wastes shall be classified, managed, stored, and disposed of in accordance with Federal, State, and local laws and regulations.

3.6.3 Contractor Generated Hazardous Wastes/Excess Hazardous Materials

Hazardous wastes are defined in 40 CFR 261, or are as defined by applicable State and local regulations. Hazardous materials are defined in 49 CFR 171 - 178. The Contractor shall, at a minimum, manage and store hazardous waste in compliance with 40 CFR 262 and shall manage and store hazardous waste in accordance with the Installation hazardous waste management plan. The Contractor shall take sufficient measures to prevent spillage of hazardous and toxic materials during dispensing. The Contractor shall segregate hazardous waste from other materials and wastes, shall protect it from the weather by placing it in a safe covered location, and shall take precautionary measures such as berming or other appropriate measures against

accidental spillage. The Contractor shall be responsible for storage, describing, packaging, labeling, marking, and placarding of hazardous waste and hazardous material in accordance with 49 CFR 171 - 178, State, and local laws and regulations. The Contractor shall transport Contractor generated hazardous waste off Government property within 60 days in accordance with the Environmental Protection Agency and the Department of Transportation laws and regulations. The Contractor shall dispose of hazardous waste in compliance with Federal, State and local laws and regulations. Spills of hazardous or toxic materials shall be immediately reported to the Contracting Officer and the Facility Environmental Office. Cleanup and cleanup costs due to spills shall be the Contractor's responsibility. The disposition of Contractor generated hazardous waste and excess hazardous materials are the Contractor's responsibility.

3.6.4 Fuel and Lubricants

Storage, fueling and lubrication of equipment and motor vehicles shall be conducted in a manner that affords the maximum protection against spill and evaporation. Fuel, lubricants and oil shall be managed and stored in accordance with all Federal, State, Regional, and local laws and regulations. Used lubricants and used oil to be discarded shall be stored in marked corrosion-resistant containers and recycled or disposed in accordance with 40 CFR 279, State, and local laws and regulations.

3.6.5 Waste Water

Disposal of waste water shall be as specified below.

a. Waste water from construction activities, such as onsite material processing, concrete curing, foundation and concrete clean-up, water used in concrete trucks, forms, etc. shall not be allowed to enter water ways or to be discharged prior to being treated to remove pollutants. The Contractor shall dispose of the construction related waste water off-Government property in accordance with all Federal, State, Regional and Local laws and regulations.

b. For discharge of ground water, the Contractor shall [obtain a State or Federal permit specific for pumping and discharging ground water prior to surface discharging.

c. Water generated from the flushing of lines after disinfection or disinfection in conjunction with hydrostatic testing shall be discharged into the sanitary sewer with prior approval and/or notification to the Waste Water Treatment Plant's Operator.

3.7 RECYCLING AND WASTE MINIMIZATION

The Contractor shall participate in State and local government sponsored recycling programs.

3.8 NON-HAZARDOUS SOLID WASTE DIVERSION REPORT

The Contractor shall maintain an inventory of non-hazardous solid waste diversion and disposal of construction and demolition debris. The Contractor shall submit a report to the Contracting Officer on the first

working day after each fiscal year quarter, starting the first quarter that non-hazardous solid waste has been generated. The following shall be included in the report:

a. Construction and Demolition (C&D) Debris Disposed = [_____] in cubic meters, as appropriate.

b. Construction and Demolition (C&D) Debris Recycled = [_____] in cubic meters, as appropriate.

c. Total C&D Debris Generated = [_____] in cubic meters, as appropriate.

d. Waste Sent to Waste-To-Energy Incineration Plant (This amount should not be included in the recycled amount) = [_____] in cubic meters, as appropriate.

3.9 HISTORICAL, ARCHAEOLOGICAL, AND CULTURAL RESOURCES

If during excavation or other construction activities any previously unidentified or unanticipated historical, archaeological, and cultural resources are discovered or found, all activities that may damage or alter such resources shall be temporarily suspended. Resources covered by this paragraph include but are not limited to: any human skeletal remains or burials; artifacts; shell, midden, bone, charcoal, or other deposits; rock or coral alignments, pavings, wall, or other constructed features; and any indication of agricultural or other human activities. Upon such discovery or find, the Contractor shall immediately notify the Contracting Officer so that the appropriate authorities may be notified and a determination made as to their significance and what, if any, special disposition of the finds should be made. The Contractor shall cease all activities that may result in impact to or the destruction of these resources. The Contractor shall secure the area and prevent employees or other persons from trespassing on, removing, or otherwise disturbing such resources.

3.10 BIOLOGICAL RESOURCES

The Contractor shall minimize interference with, disturbance to, and damage to fish, wildlife, and plants including their habitat. The Contractor shall be responsible for the protection of threatened and endangered animal and plant species including their habitat in accordance with Federal, State, Regional, and local laws and regulations.

3.11 INTEGRATED PEST MANAGEMENT

In order to minimize impacts to existing fauna and flora, the Contractor, through the Contracting Officer, shall coordinate with the Installation Pest Management Coordinator (IPMC) at the earliest possible time prior to pesticide application. The Contractor shall discuss integrated pest management strategies with the IPMC and receive concurrence from the IPMC through the COR prior to the application of any pesticide associated with these specifications. Installation Project Office Pest Management personnel shall be given the opportunity to be present at all meetings concerning treatment measures for pest or disease control and during application of the pesticide. The use and management of pesticides are regulated under 40 CFR 152 - 186.

3.11.1 Pesticide Delivery and Storage

Pesticides shall be delivered to the site in the original, unopened containers bearing legible labels indicating the EPA registration number and the manufacturer's registered uses. Pesticides shall be stored according to manufacturer's instructions and under lock and key when unattended.

3.11.2 Qualifications

For the application of pesticides, the Contractor shall use the services of a subcontractor whose principal business is pest control. The subcontractor shall be licensed and certified in the state where the work is to be performed.

3.11.3 Pesticide Handling Requirements

The Contractor shall formulate, treat with, and dispose of pesticides and associated containers in accordance with label directions and shall use the clothing and personal protective equipment specified on the labeling for use during all phases of the application. Material Safety Data Sheets (MSDS)shall be available for all pesticide products.

3.11.4 Application

Pesticides shall be applied by a State Certified Pesticide Applicator in accordance with EPA label restrictions and recommendation. The Certified Applicator shall wear clothing and personal protective equipment as specified on the pesticide label. Water used for formulating shall only come from locations designated by the Contracting Officer. The Contractor shall not allow the equipment to overflow. Prior to application of pesticide, all equipment shall be inspected for leaks, clogging, wear, or damage and shall be repaired prior to being used.

3.12 PREVIOUSLY USED EQUIPMENT

The Contractor shall clean all previously used construction equipment prior to bringing it onto the project site. The Contractor shall ensure that the equipment is free from soil residuals, egg deposits from plant pests, noxious weeds, and plant seeds. The Contractor shall consult with the USDA jurisdictional office for additional cleaning requirements.

3.13 MAINTENANCE OF POLLUTION FACILITIES

The Contractor shall maintain permanent and temporary pollution control facilities and devices for the duration of the contract or for that length of time construction activities create the particular pollutant.

3.14 MILITARY MUNITIONS

In the event the Contractor discovers or uncovers military munitions as defined in 40 CFR 260, the Contractor shall immediately stop work in that area and immediately inform the Contracting Officer.

3.15 TRAINING OF CONTRACTOR PERSONNEL

The Contractor's personnel shall be trained in all phases of environmental protection and pollution control. The Contractor shall conduct environmental protection/pollution control meetings for all Contractor personnel prior to commencing construction activities. Additional meetings shall be conducted for new personnel and when site conditions change. The training and meeting agenda shall include: methods of detecting and avoiding pollution; familiarization with statutory and contractual pollution standards; installation and care of devices, vegetative covers, and instruments required for monitoring purposes to ensure adequate and continuous environmental protection/pollution control; anticipated hazardous or toxic chemicals or wastes, and other regulated contaminants; recognition and protection of archaeological sites, artifacts, wetlands, and endangered species and their habitat that are known to be in the area.

3.17 POST CONSTRUCTION CLEANUP

The Contractor shall clean up all areas used for construction in accordance with Contract Clause: "Cleaning Up". The Contractor shall, unless otherwise instructed in writing by the Contracting Officer, obliterate all signs of temporary construction facilities such as haul roads, work area, structures, foundations of temporary structures, stockpiles of excess or waste materials, and other vestiges of construction prior to final acceptance of the work. The disturbed area shall be graded, filled and the entire area seeded unless otherwise indicated.

-- End of Section --

A00001-01781

SECTION 01781

OPERATION AND MAINTENANCE DATA
12/01

PART 1 GENERAL

1.1 SUBMISSION OF OPERATION AND MAINTENANCE DATA

Submit Operation and Maintenance (O&M) Data specifically applicable to this contract and a complete and concise depiction of the provided equipment, product, or system. Organize and present information in sufficient detail to clearly explain O&M requirements at the system, equipment, component, and subassembly level. Include an index preceding each submittal. Submit in accordance with this section and Section 01330, "Submittal Procedures."

1.1.2 Package Quality

Documents must be fully legible. Poor quality copies and material with hole punches obliterating the text or drawings will not be accepted.

1.1.3 Package Content

Data package content shall be as shown in the paragraph titled "Schedule of Operation and Maintenance Data Packages." Comply with the data package requirements specified in the individual technical sections, including the

content of the packages and addressing each product, component, and system designated for data package submission.

1.1.5 Changes to Submittals

Manufacturer-originated changes or revisions to submitted data shall be furnished by the Contractor if a component of an item is so affected subsequent to acceptance of the O&M Data. Changes, additions, or revisions required by the Contracting Officer for final acceptance of submitted data, shall be submitted by the Contractor within 30 calendar days of the notification of this change requirement.

1.2 TYPES OF INFORMATION REQUIRED IN O&M DATA PACKAGES

1.2.1 Operating Instructions

Include specific instructions, procedures, and illustrations for the following phases of operation:

1.2.1.1 Safety Precautions

List personnel hazards and equipment or product safety precautions for all operating conditions.

1.2.1.2 Operator Prestart

Include procedures required to set up and prepare each system for use.

1.2.1.3 Startup, Shutdown, and Post-Sshutdown Procedures

Provide narrative description for Startup, Shutdown and Post-shutdown operating procedures including the control sequence for each procedure.

1.2.1.4 Normal Operations

Provide narrative description of Normal Operating Procedures. Include Control Diagrams with data to explain operation and control of systems and specific equipment.

1.2.1.5 Emergency Operations

Include Emergency Procedures for equipment malfunctions to permit a short period of continued operation or to shut down the equipment to prevent further damage to systems and equipment. Include Emergency Shutdown Instructions for fire, explosion, spills, or other foreseeable contingencies. Provide guidance and procedures for emergency operation of all utility systems including required valve positions, valve locations and zones orportions of systems controlled.

1.2.1.6 Operator Service Requirements

Include instructions for services to be performed by the operator such as lubrication, adjustment, inspection, and recording gage readings.

1.2.1.7 Environmental Conditions

Include a list of Environmental Conditions (temperature, humidity, and other relevant data) that are best suited for the operation of each product, component or system. Describe conditions under which the itemequipment should not be allowed to run.

1.2.2 Preventive Maintenance

Include the following information for preventive and scheduled maintenance to minimize corrective maintenance and repair.

1.2.2.1 Lubrication Data

Include preventative maintenance lubrication data, in addition to instructions for lubrication provided under paragraph titled "Operator Service Requirements":

a. A table showing recommended lubricants for specific temperature ranges and applications.

b. Charts with a schematic diagram of the equipment showing lubrication points, recommended types and grades of lubricants, and capacities.

c. A Lubrication Schedule showing service interval frequency.

1.2.2.2 Preventive Maintenance Plan and Schedule

Include manufacturer's schedule for routine preventive maintenance, inspections, tests and adjustments required to ensure proper and economical operation and to minimize corrective maintenance. Provide manufacturer's projection of preventive maintenance work-hours on a daily, weekly, monthly, and annual basis including craft requirements by type of craft. For periodic calibrations, provide manufacturer's specified frequency and procedures for each separate operation.

1.2.3 Corrective Maintenance (Repair)

Include manufacturer's recommended procedures and instructions for correcting problems and making repairs.

1.2.3.1 Troubleshooting Guides and Diagnostic Techniques

Include step-by-step procedures to promptly isolate the cause of typical malfunctions. Describe clearly why the checkout is performed and what conditions are to be sought. Identify tests or inspections and test equipment required to determine whether parts and equipment may be reused or require replacement.

1.2.3.2 Wiring Diagrams and Control Diagrams

Wiring diagrams and control diagrams shall be point-to-point drawings of wiring and control circuits including factory-field interfaces. Provide a complete and accurate depiction of the actual job specific wiring and control work. On diagrams, number electrical and electronic wiring and pneumatic control tubing and the terminals for each type, identically to actual installation configuration and numbering.

1.2.3.3 Maintenance and Repair Procedures

Include instructions and alist of tools required to repair or restore the product or equipment to proper condition or operating standards.

1.2.3.4 Removal and Replacement Instructions

Include step-by-step procedures and a list required tools and supplies for removal, replacement, disassembly, and assembly of components, assemblies, subassemblies, accessories, and attachments. Provide tolerances, dimensions, settings and adjustments required. Instructions shall include a combination of text and illustrations.

1.2.3.5 Spare Parts and Supply Lists

Include lists of spare parts and supplies required for maintenance and repair to ensure continued service or operation without unreasonable delays. Special consideration is required for facilities at remote locations. List spare parts and supplies that have a long lead-time to obtain.

1.2.3.6 Corrective Maintenance Work-Hours

Include manufacturer's projection of corrective maintenance work-hours including requirements by type of craft. Corrective maintenance that requires completion orparticipation of the equipment manufacturer shall be identified and tabulated separately.

1.2.4 Appendices

Provide information required below and information not specified in the preceding paragraphs but pertinent to the maintenance or operation of the product or equipment. Include the following:

1.2.4.1 Parts Identification

Provide identification and coverage for all parts of each component, assembly, subassembly, and accessory of the end items subject to replacement. Include special hardware requirements, such as requirement to use high-strength bolts and nuts. Identify parts by make, model, serial number, and source of supply to allow reordering without further identification. Provide clear and legible illustrations, drawings, and exploded views to enable easy identification of the items. When illustrations omit the part numbers and description, both the illustrations and separate listing shall show the index, reference, or key number that will cross-reference the illustrated part to the listed part. Parts shown in the listings shall be grouped by components, assemblies, and subassemblies in accordance with the manufacturer's standard practice. Parts data may cover more than one model or series of equipment, components, assemblies, subassemblies, attachments, or accessories, such as typically shown in a master parts catalog

1.2.4.2 Warranty Information

List and explain the various warranties and include the servicing and technical precautions prescribed by the manufacturers or contract documents in order to keep warranties in force. Include warranty information for primary components such as the compressor of air conditioning system.

1.2.4.3 Personnel Training Requirements

Provide information available from the manufacturers that is needed for use in training designated personnel to properly operate and maintain the equipment and systems.

1.2.4.4 Testing Equipment and Special Tool Information

Include information on test equipment required to perform specified tests and on special tools needed for the operation, maintenance, and repair of components.

1.2.4.5 Contractor Information

Provide a list that includes the name, address, and telephone number of the General Contractor and each Subcontractor who installed the product or equipment, or system. For each item, also provide the name address and telephone number of the manufacturer's representative and service organization most convenient to the project site. Provide the name, address, and telephone number of the product, equipment, and system manufacturers.

1.3 SCHEDULE OF OPERATION AND MAINTENANCE DATA PACKAGES

Furnish the O&M data packages specified in individual technical sections. The required information for each O&M data package is as follows:

1.3.1 Data Package 1

a. Safety precautions

b. Maintenance and repair procedures

c. Warranty information

d. Contractor information

e. Spare parts and supply list

1.3.2 Data Package 2

a. Safety precautions

b. Normal operations

c. Environmental conditions

d. Lubrication data

e. Preventive maintenance plan and schedule

f. Maintenance and repair procedures

g. Removal and replacement instructions

h. Spare parts and supply list

i. Parts identification

j. Warranty information

k. Contractor information

1.3.3 Data Package 3

a. Safety precautions

b. Normal operations

c. Emergency operations

d. Environmental conditions

e. Lubrication data

f. Preventive maintenance plan and schedule

g. Troubleshooting guides and diagnostic techniques

h. Wiring diagrams and control diagrams

i. Maintenance and repair procedures

j. Removal and replacement instructions

k. Spare parts and supply list

l. Parts identification

m. Warranty information

n. Testing equipment and special tool information

o. Contractor information

1.3.4 Data Package 4

a. Safety precautions

b. Operator prestart

c. Startup, shutdown, and post-shutdown procedures

d. Normal operations

e. Emergency operations

f. Operator service requirements

g. Environmental conditions

h. Lubrication data

i. Preventive maintenance plan and schedule

j. Troubleshooting guides and diagnostic techniques

k. Wiring diagrams and control diagrams

l. Maintenance and repair procedures

m. Removal and replacement instructions

n. Spare parts and supply list

o. Corrective maintenance man-hours

p. Parts identification

q. Warranty information

r. Personnel training requirements

s. Testing equipment and special tool information

t. Contractor information

1.3.5 Data Package 5

a. Safety precautions

b. Operator prestart

c. Start-up, shutdown, and post-shutdown procedures

d. Normal operations

e. Environmental conditions

f. Preventive maintenance plan and schedule

g. Troubleshooting guides and diagnostic techniques

h. Wiring and control diagrams

i. Maintenance and repair procedures

j. Spare parts and supply list

k. Testing equipments and special tools

l. Warranty information

m. Contractor information

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

-- End of Section --

A00001-16600

SECTION 16600

AIRCRAFT SERVICE PITS

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM B 26/B 26M (1999) Aluminum-Alloy Sand Castings

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

DOT AC 150/5320-6D (1998) Airport Pavement Design and Evaluation

Federal Specifications (MIL)

MIL-AMS-2772 (Rev B) Heat Treatment of Aluminum Alloy Raw Material

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Pits; G, AE

Submit shop drawings indicating dimensions and methods of assembly of components.

SD-03 Product Data

Pits; G, AE

Submit manufacturer's data including, but not limited to technical product data, furnished specialties and accessories.

1.3 QUALITY ASSURANCE:

1.3.1 Manufacturers

Firms regularly engaged in manufacture of aircraft service pits of types, sizes as specified herein whose products have been in satisfactory use in similar service for not less than 5 years. Dabico, Inc. aircraft service pits were used as the basis for design.

PART 2 PRODUCTS

2.1 General

All the internal pit components shown and described in the drawings and specifications shall be provided by the pit manufacturer as a completely assembled package with all pipe/conduit stubs.

2.2 SERVICE PITS

2.2.1 PIT COVER

a. Cover shall be all primary metal cast aluminum, No. A356.2, per ASTM B 26/B 26M with a T-6 heat treat per MIL-AMS-2772, with no substitutions. Service lettering shall be abrasion/corrosion/chemical resistant, color coded, polyester powder coated. Cover access door shall have hand hole with a minimum 44 mm depth and 123,000 mm^3 volume located near edge opposite of hinge side; and a single-motion, automatic, non-spring, latch lever without any above grade protrusions whether in use or not and with a minimum 6 mm clearance from latching surface. Cover door shall have a maximum 133 N lift using non-weight bearing, free floating hinge with minimum 13 mm diameter hinge pin; providing a minimum 450 mm diameter opening, and access under opening to highest pit internal component at a maximum of 100 mm from pit top, if applicable.

b. Each cover style's prototype test report shall be submitted and the test shall have been conducted by an independent testing company in the following manner: cover loading over each 129,000 mm^2 footprint shall result in a minimum 6900 kPa rating with a maximum 2.5 mm full load deflection at center indicator and deflection "rebound" within 0.025 mm after load release. Cover shall also comply with DOT AC 150/5320-6D.

c. Cover shall be free of visual shrink porosity cavity areas, fillers, weldments and paint to hide them. Cover areas painted for safety or colored for information are allowed. Weight bearing mating flange surfaces of the pit and cover shall be machined flat to within 0.025 mm total indicator reading.

2.2.2 ACCESSORIES

Pit shall be prefabricated with a drain coupling. The pit floor shall slope down to a low point area. Pit shall be fiberglass, 10 mm thick minimum.

2.2.3 INTERNAL COMPONENTS

a. All the pit internal components indicated in the Contract Documents shall be provided by the pit manufacturer as a completely factory assembled package with pipe/conduit stubs as follows: greater of 150 mm or the length of the pipe O.D., for side entry, even with bottom of the pit for bottom entry, or just outside the pit wall for couplings/seal-offs.

b. Thermal Expansion Compensator (TEC): The following pit component device(s) shall also be provided, where applicable, by the pit manufacturer:

1) Thermal Expansion Compensator (TEC), shall be provided for the electrical enclosure(s) and/or device(s) to maintain zero pressure/vacuum; preventing condensation and hazardous chemical-caused short circuiting and corrosion by “breathing” through a temperature differential of up to 38 degrees C.

c. Electrical No-Wet Retriever: The following pit component device(s) shall also be provided, where applicable, by the pit manufacturer:

1) No-Wet Retriever shall keep the electrical plug contact points free from debris, fuel and apron surface water, even if the pit is completely full of water; and automatically raise the plug above grade when the cover 450 mm access door is open.

d. Provide pushbutton/pilot light station with converter on/off pushbuttons, green “power available” and red “contactor closed” pilot light.

e. Provide 400 Hertz, 100 kVA power cable, 18 m long with aircraft power plug having contactor open/close control and dust cap.

f. Provide 120 V, 30 amp, single phase, Class 1, Div. 1 receptacle with mating plug.

g. Provide perforated cable tray in bottom of pit for coiled 400 hertz cabling.

h. Provide all conduit couplings and seal-offs as required.

i. Provide grounding bus.

PART 3 EXECUTION

3.1 INSTALLATION

Install aircraft service pits in accordance with manufacturer's instruction and industry practices.

-- End of Section --

A00001-ROOF WARRANTY

CONTRACTOR'S FIVE (5) YEAR NO PENAL SUM WARRANTY
FOR
BUILT-UP ROOF SYSTEM

FACILITY DESCRIPTION_____

BUILDING NUMBER:_____

CORPS OF ENGINEERS CONTRACT NUMBER:_____

CONTRACTOR

CONTRACTOR:_____

ADDRESS:_____

POINT OF CONTACT:_____

TELEPHONE NUMBER:_____

OWNER

OWNER:_____

ADDRESS:_____

POINT OF CONTACT:_____

TELEPHONE NUMBER:_____

CONSTRUCTION AGENT

CONSTRUCTION AGENT:_____

ADDRESS:_____

POINT OF CONTACT:_____

TELEPHONE NUMBER:_____

CONTRACTOR'S FIVE (5) YEAR NO PENAL SUM WARRANTY
FOR
BUILT-UP ROOF SYSTEM
(continued)

THE BUILT-UP ROOF SYSTEM INSTALLED ON THE ABOVE NAMED BUILDING IS WARRANTED BY _____ FOR A PERIOD OF FIVE (5) YEARS AGAINST WORKMANSHIP AND MATERIAL DEFICIENCIES, WIND DAMAGE, STRUCTURAL FAILURE, AND LEAKAGE. THE BUILT-UP ROOFING SYSTEM COVERED UNDER THIS WARRANTY SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE FOLLOWING: THE ENTIRE ROOFING SYSTEM, MANUFACTURER SUPPLIED FRAMING AND STRUCTURAL MEMBERS, ROOFING MATERIAL, FASTENERS, ROOF SECUREMENT COMPONENTS, AND ASSEMBLIES TESTED AND APPROVED IN ACCORDANCE WITH UL 580. IN ADDITION, THE METAL FLASHING FINISHES, INSULATION, ALL ACCESSORIES, COMPONENTS, AND TRIM AND ALL CONNECTIONS ARE INCLUDED. THIS INCLUDES ROOF PENETRATION ITEMS SUCH AS VENTS, CURBS; ROOF SYSTEM FLASHINGS INSTALLED AND ANY OTHER COMPONENTS SPECIFIED WITHIN THIS CONTRACT TO PROVIDE A WEATHERTIGHT ROOF SYSTEM; AND ITEMS SPECIFIED IN OTHER SECTIONS OF THE SPECIFICATIONS THAT ARE PART OF THE BUILT-UP ROOFING SYSTEM.

ALL MATERIAL DEFICIENCIES, WIND DAMAGE, STRUCTURAL FAILURE, AND LEAKAGE ASSOCIATED WITH THE BUILT-UP ROOF SYSTEM COVERED UNDER THIS WARRANTY SHALL BE REPAIRED AS APPROVED BY THE CONTRACTING OFFICER. THIS WARRANTY SHALL COVER THE ENTIRE COST OF REPAIR OR REPLACEMENT, INCLUDING ALL MATERIAL, LABOR, AND RELATED MARKUPS. THE ABOVE REFERENCED WARRANTY COMMENCED ON THE DATE OF FINAL ACCEPTANCE ON _____ AND WILL REMAIN IN EFFECT FOR STATED DURATION FROM THIS DATE.

SIGNED, DATED, AND NOTARIZED (BY COMPANY PRESIDENT)

_____

(Company President) (Date)

CONTRACTOR'S FIVE (5) YEAR NO PENAL SUM WARRANTY
FOR
BUILT-UP ROOFING SYSTEM
(continued)

THE CONTRACTOR SHALL SUPPLEMENT THIS WARRANTY WITH WRITTEN WARRANTIES FROM THE MANUFACTURER AND/OR INSTALLER OF THE BUILT-UP ROOFING SYSTEM, WHICH SHALL BE SUBMITTED ALONG WITH THE CONTRACTOR'S WARRANTY. HOWEVER, THE CONTRACTOR WILL BE ULTIMATELY RESPONSIBLE FOR THIS WARRANTY AS OUTLINED IN THE SPECIFICATIONS AND AS INDICATED IN THIS WARRANTY EXAMPLE.

EXCLUSIONS FROM COVERAGE

1. NATURAL DISASTERS, ACTS OF GOD (LIGHTNING, FIRE, EXPLOSIONS, SUSTAINED WIND FORCES IN EXCESS OF THE DESIGN CRITERIA, EARTHQUAKES, AND HAIL).

2. ACTS OF NEGLIGENCE OR ABUSE OR MISUSE BY GOVERNMENT OR OTHER PERSONNEL, INCLUDING ACCIDENTS, VANDALISM, CIVIL DISOBEDIENCE, WAR, OR DAMAGE CAUSED BY FALLING OBJECTS.

3. DAMAGE BY STRUCTURAL FAILURE, SETTLEMENT, MOVEMENT, DISTORTION, WARPAGE, OR DISPLACEMENT OF THE BUILDING STRUCTURE OR ALTERATIONS MADE TO THE BUILDING.

4. CORROSION CAUSED BY EXPOSURE TO CORROSIVE CHEMICALS, ASH OR FUMES GENERATED OR RELEASED INSIDE OR OUTSIDE THE BUILDING FROM CHEMICAL PLANTS, FOUNDRIES, PLATING WORKS, KILNS, FERTILIZER FACTORIES, PAPER PLANTS, AND THE LIKE.

5. FAILURE OF ANY PART OF THE BUILT-UP ROOF DUE TO ACTIONS BY THE OWNER TO INHIBIT FREE DRAINAGE OF WATER FROM THE ROOF OR ALLOW PONDING WATER TO COLLECT ON THE ROOF SURFACE. CONTRACTOR'S DESIGN SHALL INSURE FREE DRAINAGE FROM THE ROOF AND NOT ALLOW PONDING WATER.

6. THIS WARRANTY APPLIES TO THE BUILT-UP ROOFING SYSTEM. IT DOES NOT INCLUDE ANY CONSEQUENTIAL DAMAGE TO THE BUILDING INTERIOR OR CONTENTS WHICH IS COVERED BY THE WARRANTY OF CONSTRUCTION CLAUSE INCLUDED IN THIS CONTRACT.

7. THIS WARRANTY CANNOT BE TRANSFERRED TO ANOTHER OWNER WITHOUT WRITTEN CONSENT OF THE CONTRACTOR; AND THIS WARRANTY AND THE CONTRACT PROVISIONS WILL TAKE PRECEDENCE OVER ANY CONFLICTS WITH STATE STATUTES.

**

CONTRACTOR'S FIVE (5) YEAR NO PENAL SUM WARRANTY
FOR
BUILT-UP ROOF SYSTEM
(continued)

**REPORTS OF LEAKS AND ROOF SYSTEM DEFICIENCIES SHALL BE RESPONDED TO WITHIN 48 HOURS OF RECEIPT OF NOTICE, BY TELEPHONE OR IN WRITING, FROM EITHER THE OWNER OR CONTRACTING OFFICER. EMERGENCY REPAIRS TO PREVENT FURTHER ROOF LEAKS SHALL BE INITIATED IMMEDIATELY; A WRITTEN PLAN SHALL BE SUBMITTED FOR APPROVAL TO REPAIR OR REPLACE THIS ROOF SYSTEM WITHIN SEVEN (7) CALENDAR DAYS. ACTUAL WORK FOR PERMANENT REPAIRS OR REPLACEMENT SHALL BE STARTED WITHIN 30 DAYS AFTER RECEIPT OF NOTICE, AND COMPLETED WITHIN A REASONABLE TIME FRAME. IF THE CONTRACTOR FAILS TO ADEQUATELY RESPOND TO THE WARRANTY PROVISIONS, AS STATED IN THE CONTRACT AND AS CONTAINED HEREIN, THE CONTRACTING OFFICER MAY HAVE THE BUILT-UP ROOF SYSTEM REPAIRED OR REPLACED BY OTHERS AND CHARGE THE COST TO THE CONTRACTOR.

IN THE EVENT THE CONTRACTOR DISPUTES THE EXISTENCE OF A WARRANTABLE DEFECT, THE CONTRACTOR MAY CHALLENGE THE OWNER'S DEMAND FOR REPAIRS AND/OR REPLACEMENT DIRECTED BY THE OWNER OR CONTRACTING OFFICER EITHER BY REQUESTING A CONTRACTING OFFICER'S DECISION UNDER THE CONTRACT DISPUTES ACT, OR BY REQUESTING THAT AN ARBITRATOR RESOLVE THE ISSUE. THE REQUEST FOR AN ARBITRATOR MUST BE MADE WITHIN 48 HOURS OF BEING NOTIFIED OF THE DISPUTED DEFECTS. UPON BEING INVOKED, THE PARTIES SHALL, WITHIN TEN (10) DAYS, JOINTLY REQUEST A LIST OF FIVE (5) ARBITRATORS FROM THE FEDERAL MEDIATION AND CONCILIATION SERVICE. THE PARTIES SHALL CONFER WITHIN TEN (10) DAYS AFTER RECEIPT OF THE LIST TO SEEK AGREEMENT ON AN ARBITRATOR. IF THE PARTIES CANNOT AGREE ON AN ARBITRATOR, THE CONTRACTING OFFICER AND THE PRESIDENT OF THE CONTRACTOR'S COMPANY WILL STRIKE ONE (1) NAME FROM THE LIST ALTERNATIVELY UNTIL ONE (1) NAME REMAINS. THE REMAINING PERSON SHALL BE THE DULY SELECTED ARBITRATOR. THE COSTS OF THE ARBITRATION, INCLUDING THE ARBITRATOR'S FEE AND EXPENSES, COURT REPORTER, COURTROOM OR SITE SELECTED, ETC., SHALL BE BORNE EQUALLY BETWEEN THE PARTIES. EITHER PARTY DESIRING A COPY OF THE TRANSCRIPT SHALL PAY FOR THE TRANSCRIPT. A HEARING WILL BE HELD AS SOON AS THE PARTIES CAN MUTUALLY AGREE. A WRITTEN ARBITRATOR'S DECISION WILL BE REQUESTED NOT LATER THAN 30 DAYS FOLLOWING THE HEARING. THE DECISION OF THE ARBITRATOR WILL NOT BE BINDING; HOWEVER, IT WILL BE ADMISSIBLE IN ANY SUBSEQUENT APPEAL UNDER THE CONTRACT DISPUTES ACT.

A FRAMED COPY OF THIS WARRANTY SHALL BE POSTED IN THE MECHANICAL ROOM OR OTHER APPROVED LOCATION DURING THE ENTIRE WARRANTY PERIOD.

A00001-SCOPE OF WORK

SCOPE OF WORK

DEMO BUILDINGS, MCGUIRE AFB

This document defines, in general, the scope of building and utility demolition work to be done on this site by a separate demolition contractor and is for information only to the Maintenance Hangar and Aircraft Maintenance Shops Project Offerors, McGuire AFB, New Jersey, DACA51-02-R-0017.

1. Buildings to be demolished include: Building 2219, 2227, 2240, 2241, 2242, 2250, 2254, and 2256. These are all located at McGuire Air Force Base, New Jersey. The anticipated Notice to Proceed for demolition is

in the first week of September, 2002. The expected duration of work is 10-15 weeks for all demolition. Buildings 2240 and 2250 are scheduled to be vacated on September 15, 2002 and Building 2219 is scheduled to be vacated on December 15, 2002.

2. Contractor shall cut and cap water, sewer, steam and electric. Government will furnish drawings or will direct the contractor as to where such utilities will be terminated. Provide "as-built" drawings indicating final utility conditions at end of the contract to the Contracting Officer.

3. Contract shall be responsible to obtain all necessary permits where applicable. Provide record copies at end of contract to the Contracting Officer.

4. Contractor shall remove and dispose of all asbestos, lead-based paint and other hazardous materials as identified by Asbestos, Lead-Based Paint and Other Hazardous Materials Survey Report McGuire Air Force Base, Buildings 2219, 2227, 2240, 2241, 2242 and 2250, Wrightstown, NJ dated May 10, 2002 as prepared by Matrix Environmental & Geotechnical Services, Inc. for the applicable buildings.

5. Contractor shall demolish buildings to grade level, remove all building slabs, footings and foundations.

6. After buildings have been demolished and all slabs, footings, and foundations have been removed, the Contractor shall return the areas to match the adjacent grades in accordance with the following requirements. Fill material should consist of a well graded sand/or gravel having not more than 15% by dry weight passing the number 200 sieve. All fill material shall be free of organic and other deleterious materials, and should have a maximum particle size no greater than 76 mm.

7. At Buildings 2240 and 2250, the Contractor shall erect temporary fencing to keep debris from blowing on to runway areas.

AMENDMENT #0001

AMENDMENT #1 TO DRAWINGS AND SPECIFICATIONS FOR FY 02 C17 MAINTENANCE HANGAR AND AIRCRAFT MAINTENANCE SHOPS, McGUIRE AFB, NEW JERSEY – DACA51-02-R-0017

TO OFFERORS

The following **CHANGES** shall be made to the drawings and specifications.

Drawings

1.) The following DRAWINGS have been **REVISED but not REISSUED:**

a.) Sheet GI002, Location Map; **ADD** the following note to this drawing: "General Note: At the discretion of the Government, the truck haul route may change at any time during construction. The actual route may be 1 to 2 miles longer than what is currently shown."

b.) Refer Sheet FP101, Note 2. **DELETE** existing note and replace with the following: "FIRE PROTECTION WATER SUPPLY IS FROM THREE AVAILABLE OPERATING FIRE PUMPS IN BUILDING 3102, EACH RATED AT 690 kPa AND 9464 L/MIN, PLUS ONE REDUNDANT PUMP."

c.) Refer Sheets IF601 and IF602:

In the Material and Color Schedules "A" and "B", **CHANGE** the Color No./Name of the Metal Roof (MR) from "#147 Mocha" to "Custom color to be determined by the Contracting Officer."

ADD new exterior finish as follows:

CODE	MATERIAL	MANUFACTURER/SUPPLIER	COLOR NO./NAME
MWP	METAL WALL PANEL	CENTRIA	Custom color to be determined by the Contracting Officer.

Refer to Exterior Material Note #3: EPT1 in this note refers to the Exterior Finish of the same abbreviation, not the EPT1 epoxy paint in the Wall/Partition Finishes.

d.) Refer Sheets AE101 and AE106: The east wall of the stair adjacent to the Hangar Bay must be a smoke partition requiring smoke seals at door 155A.

SPECIFICATIONS

1.) The following SPECIFICATIONS SECTIONS have been **ADDED** in their entirety and are provided in their entirety herein:

Section 01355A, Environmental Protection

Section 01731, Operation and Maintenance Data

Section 09100N, Metal Support Assemblies

Section 16600, Aircraft Service Pits

2.) The following SPECIFICATIONS SECTIONS have been **DELETED** in their entirety:

Section 02080, Asbestos Abatement

Section 02081, Lead-Based Paint Management

Section 02921A, Seeding

3.) The following SPECIFICATIONS have been **REVISED** as indicated below.

STANDARD FORM 1442, SOLICITATION, OFFER AND AWARD

Paragraph 11: **CHANGE** "1095" to "900".

SECTION 00010, BID SCHEDULE

THE PRICE SCHEDULE ISSUED IN VOLUME 1 OF THE SPECIFICATIONS IS DELETED **IN ITS ENTIRETY AND REPLACED WITH THE REVISED PRICE SCHEDULE THAT ACCOMPANIES.**

Section 00110, Submission, Requirements, and Instructions

Paragraph 2.3.1; **DELETE** paragraph 2.3.1 in its entirety from this section without replacement.

3.4. FACTOR 2 - PAST PERFORMANCE; **INSERT** the following after the last paragraph of this subsection:

Form C, “Past Performance Survey”, and a completed copy of appropriate “Past Experience” form, shall be distributed by the Offeror to past clients or subcontractor clients, with instructions to the clients to complete the survey and return the surveys with a copy of Form A or B directly to the Corps of Engineers-New York District, Contracting Division, Attn: Mr. Alan Link via facsimile or mail, on or before the date proposals are due. This evaluation factor is separate and distinct from the Contracting Officer’s responsibility determination. The assessment of the Offeror’s past performance will be used as a means of evaluating the relative capability of the Offeror to successfully meet the requirements of the RFP.

Subsection 3.6.4, entitled “Experience Modification Rating (EMR)”; **DELETE** the last sentence of this section; “Acceptable EMR ratings may not exceed 1.0.” and **REPLACE** it with the following: “If your most current rating is over 1.0 and there are extenuating circumstances concerning your rating, provide an explanation.”

Section 00800, Special Contract Requirements

Paragraph 1.a. **DELETE** “1095” where it appears in this paragraph and **REPLACE** it with “900.”

Paragraph 2.a. In the last line, **CHANGE** the sum from "$760" to "$815".

Paragraph 2.d. In the sixth line, **CHANGE** the amount per day from "$190" to "$204".

ADD page **(40)** Project Fabrication and Mounting Guidelines

ADD page **(41)** Safety Performance Sign

Section 01010, Design Requirements

Paragraph 1.0: In the second sentence, **DELETE** the word "structures" and replace with the words "abandoned utilities."

Paragraph 1.2.1: **DELETE** the second paragraph. Building demolition will be in a separate contract. The Building Demolition Contractor's Scope of Work is attached for reference.

Paragraph 1.2.2: **DELETE** the fifth paragraph. Asbestos and lead-based paint abatement will be in a separate contract. The Building Demolition Contractor's Scope of Work is attached for reference.

Paragraph 2.7: In Option 2, "demolition" will only include work other than that described in the Building Demolition Contractor's Scope of Work, attached for reference. Building demolition will be in a separate contract.

Paragraph 3.1: In the second paragraph, "site clearing" and "demolition and removals" will only include work other than that described in the Building Demolition Contractor's Scope of Work, attached for reference. Building demolition will be in a separate contract.

Paragraph 3.6: **DELETE** the second sentence. Building demolition will be in a separate contract.

Paragraph 3.23.3: In the second paragraph, fourth line, after the words "accordance with", **ADD** the reference "ETL 01-02." After the next-to-last sentence, **ADD** the sentence "Pipe entrance into building shall be per ETL 01-02 requirements."

Paragraph 3.23.3: The fire flow test results referenced in the sixth paragraph, last line, are attached.

Paragraph 5.2: **DELETE** reference to ETL 1110-9-12(FR).

Paragraph 5.5.3.3: In the fourth and eighth lines, **CHANGE** "125 PSI" to "690 kPa". In the fourth line, **CHANGE** "2500 GPM" to "9464 L/min."

Paragraph 5.5.3.3: At the end of the paragraph, **ADD** "utilizing the existing underground piping system as modified in this project, with three 9464 L/min rated fire pumps operating. System static pressure is maintained at 738 kPa at the pump house.

Paragraphs 5.11 and 5.12: **DELETE** paragraphs in their entirety. Building demolition and asbestos and lead-based paint abatement will be in a separate contract.

Paragraph 6.2.1 – General Design Information: In the first paragraph, **DELETE** the last sentence and replace with the following: "The engineer in responsible charge shall be licensed to perform described work in the United States, Puerto Rico, or in the District of Columbia."

Paragraph 6.4.2 – Vertical Serviceability Criteria: Revise the second item as follows:

"Dead and Live (and/or Snow) Load:	span/600 and/or 7.5 mm maximum when supporting masonry."

Paragraph 7.1.3.1: In the sixth paragraph, second line, after the word "demolition" **ADD** the words "in a separate contract." At the end of the next to last sentence, **ADD** the words "in a separate contract."

Paragraph 7.2.2.2: In the third line, after the word "demolished" **ADD** the words "in a separate contract."

Paragraph 8.1.4: **DELETE** paragraph. Demolition work is in a separate contract.

Section 01012, Design After Award

Paragraph 2.0: In the third line, **DELETE** the words "a listed New Jersey ……. Engineer of Record" and replace with the words "architects or engineers registered to practice in the particular field involved in a State or a possession of the United States, Puerto Rico, or in the District of Columbia."

Section 01420, Safety

Paragraph 7.2: **CHANGE** "Form 200" to "Form 300".

Section 02220A, Demolition

Existing building demolition on the site will be accomplished in a separate contract. References to building demolition should be **DELETED** from this section. The scope of work for the demolition contractor is attached for information purposes only.

Section 03300, Cast-In-Place Structural Concrete

Paragraph 3.13: The floors to be treated with floor hardener are all floors not scheduled to receive a subsequent floor finish such as resilient flooring, ceramic tile, carpet, and dry shake hardener.

Section 04200A, Masonry

Paragraph 2.2: At the end of the paragraph, **ADD** the following: "MAFB standard brick is Boren Pamlico #11-55-1 as manufactured by Pleasant Garden Plant #6. The alternate brick is Michigan Brick F-50, Cavanaugh Shade."

Section 07412A, Non-Structural Metal Roofing

ADD new paragraphs as follows:

2.12 SNOW GUARDS

2.12.1 Clamps

Clamps shall be fabricated of 6061 T6 alloy aluminum conforming to ASTM B 221. Clamps shall attach to roof standing seams with 10 mm stainless steel (18-8 alloy) setscrews with rounded points. Provide clamps at every seam.

2.12.2 Crossmembers

Crossmembers shall be fabricated of 6061 T6 alloy aluminum conforming to ASTM B 221. Minimum breaking strength shall be 3 kg/mm. Crossmembers shall be designed with a receptacle in face for insertion of aluminum strips of same material and color as roof. Color strips shall be provided by roof manufacturer. Provide splice pieces for alignment and continuity. Crossmembers shall attach to clamps with 10 mm bolts and flat washers.

3.6 SNOW GUARD INSTALLATION

3.6.1 Layout

Layout snow guard location straight and true to line, parallel to roof edge at distance from edge recommended by manufacturer.

3.6.2 Clamp Installation

Install clamps following manufacturer's recommendations. Install both screws on same side of clamp and torque to recommended value.

3.6.3 Crossmember Installation

Install crossmember following manufacturer's recommendations with bolts provided. Install splice pieces. Insert color strips from roof manufacturer. Do not cantilever crossmember more than 150 mm past last clamp.

Section 07510A, Built-Up Roofing

ADD new paragraphs as follows:

1.4 WARRANTIES

The Built-Up Roofing System shall be warranted as outlined below. Any emergency temporary repairs conducted by the owner shall not negate the warranties.

1.4.1 Contractor's Weathertightness Warranty

The Built-Up Roofing System shall be warranted by the Contractor on a no penal sum basis for a period of five years against material and workmanship deficiencies; system deterioration caused by exposure to the elements and/or inadequate resistance to specified service design loads, water leaks, and wind uplift damage. The roofing covered under this warranty shall include the entire roofing system, including but not limited to, the roof material, fasteners, connectors, roof securement components, and assemblies tested and approved in accordance with UL 580. In addition, the system shall consist of metal flashing finishes, insulation, vapor retarder, all accessories, components, and trim. This includes roof penetration items such as vents, curbs; roof system flashings and any other components specified within this contract to provide a weathertight roof system; and items specified in other sections of the specifications that are part of the roof system. All material and workmanship deficiencies, system deterioration caused by exposure to the elements and/or inadequate resistance to service design loads, water leaks and wind uplift damage shall be repaired as approved by the Contracting Officer. See the attached Contractor's required warranty for issue resolution of warrantable defects. This warranty shall warrant and cover the entire cost of repair or replacement, including all material, labor, and related markups. The Contractor shall supplement this warranty with written warranties from the installer and system manufacturer, which shall be submitted along with Contractor's warranty; however, the Contractor shall be ultimately responsible for this warranty. The Contractor's written warranty shall be as outlined in attached WARRANTY FOR BUILT-UP ROOF SYSTEM, and shall start upon final acceptance of the facility. It is required that the Contractor provide a separate bond in an amount equal to the installed total roofing system cost in favor of the owner (Government) covering the Contractor's warranty responsibilities effective throughout the 5 year Contractor's warranty period for the entire roofing system as outlined above.

1.4.2 Manufacturer's Material Warranties

The Contractor shall furnish, in writing, the following manufacturer's material warranties which cover all Built-Up Roofing System components such as roof material, flashing, accessories, and trim, fabricated from coil material:

a. A manufacturer's 20 year material warranty warranting that the zinc-coated steel, aluminum-zinc alloy coated steel or aluminum-coated steel as specified in Section 07600A SHEET METALWORK, GENERAL, will not rupture, fail structurally, or perforate under normal atmospheric conditions at the site. Liability under this warranty shall be limited exclusively to the cost of either repairing or replacing nonconforming, ruptured, perforated, or structurally failed coil material.

b. A manufacturer's 20 year exterior material finish warranty for sheet metal specified in Section 07600A SHEET METALWORK, GENERAL, warranting that the factory color finish, under normal atmospheric conditions at the site, will not crack, peel, or delaminate; chalk in excess of a numerical rating of 8 when measured in accordance with ASTM D 4214; or fade or change colors in excess of 5 NBS units as measured in accordance with ASTM D 2244. Liability under this warranty is exclusively limited to refinishing or replacing the defective coated coil material.

c. A roofing system manufacturer's 20 year no penal sum system weathertightness warranty.

ADD new Built-Up Roofing warranty (4 pages), attached.

Section 07600A, Sheet Metalwork, General

Paragraph 1.2: **DELETE** edit changing Section 07510 BUILT-UP ROOFING, to Section 07551 MODIFIED BITUMEN ROOFING. Built-up roofing is correct.

Section 08710, Door Hardware

ADD new paragraph as follows:

2.24 KEY BOX STATION

Station shall be a steel box with thermoset plastic coating, swinging door with key lock and retaining chain, inside hooks for 3 keys, and drain hole in bottom; 1600 Series Knox Box by The Knox Co., Newport Beach, CA, or an approved equal. Provide 2 keys keyed to MAFB Fire Department Standard. Provide box immediately east of Stair Door 155B on south side of building, wall surface mounted at 1.5 m AFF to centerline of box.

Section 09900, Paints and Coatings

ADD new Paragraph as follows:

1.5.8 VOC Content Requirements

The VOC Content of the material shall be in accordance with Federal, State and Local requirements.

Section 10430A, Exterior Signage

Paragraph 2.6: **CHANGE** reference "AFP 88-40" to "AMC ETL 93-02."

(End of Summary of Changes)